

AGRICULTURE RESILIENCE PLAN UPDATE

Cindy Dittbrenner
Snohomish CD

Presentation to:
Sustainable Lands Strategy
July 18, 2018

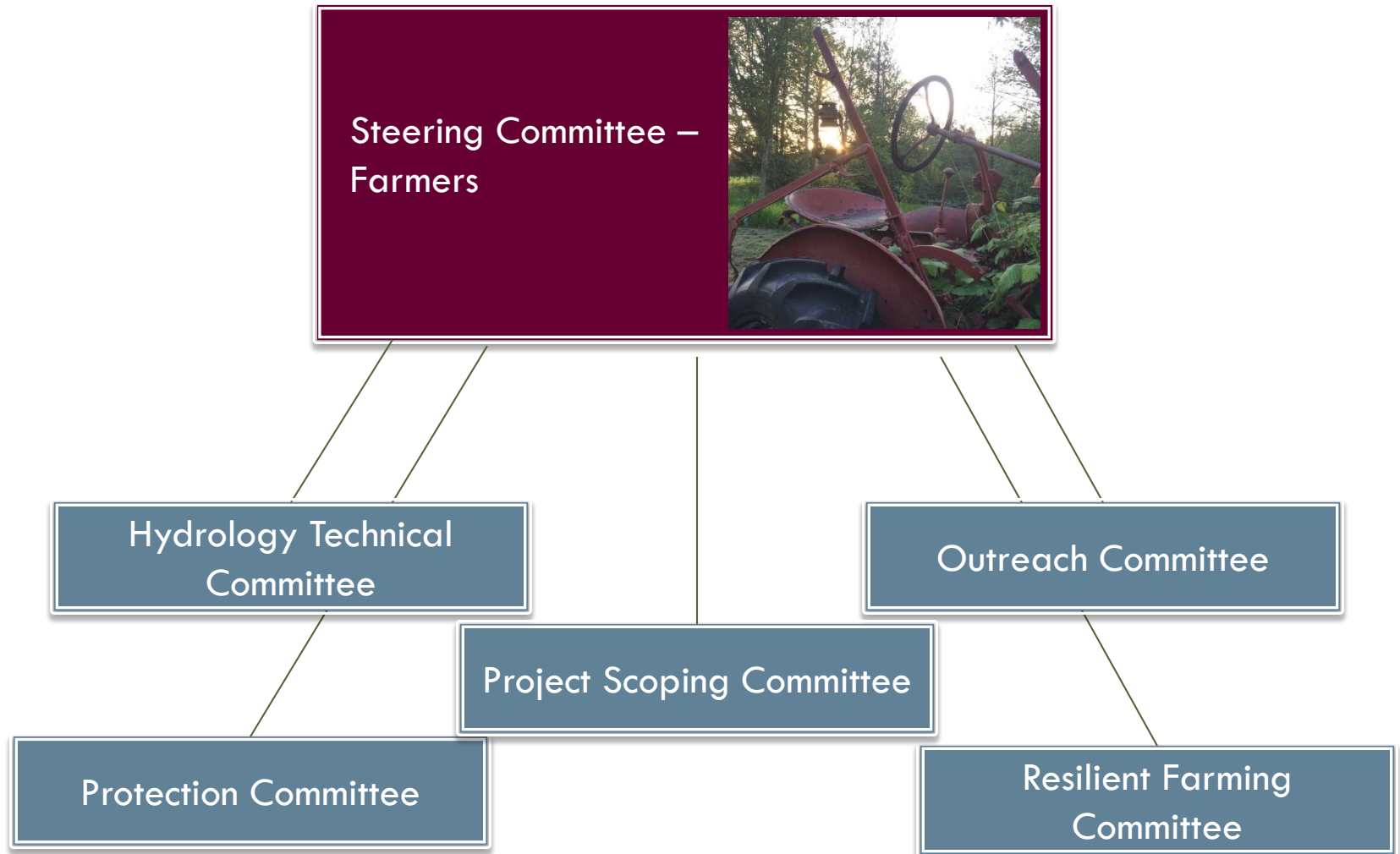


Snohomish Conservation District

working together for better ground since 1941



Organizational Approach



Steering Committee Members

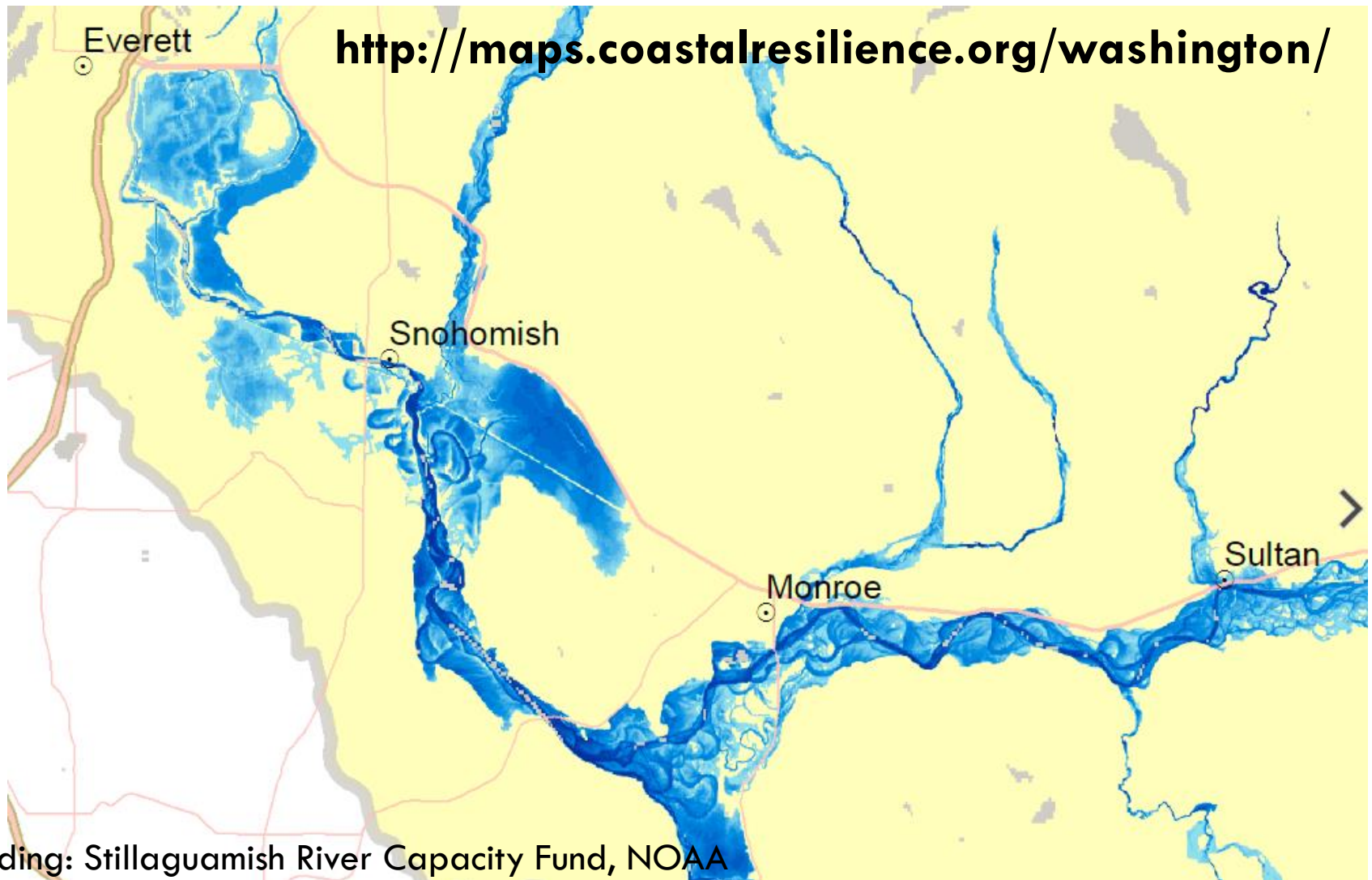
- Brian Bookey, Cherry Lane Farms
- Libby Reed, Orange Star Farms
- Jeff Ellingsen, SCD Board and farmer
- Nick Pate, Raising Cane Ranch
- Dan Bartelheimer, Sno Valley Farm
- Jeremy Visser, dairy farmer
- Darren Carleton, Carleton Farms
- Chelsea Johansen, Rainy Sunday Ranch
- Spencer Fuentes, Hazel Blue Acres
- Andrew Albert, Andrew's Hay
- Leah Werkhoven, Werkhoven Dairy

Impact Assessment

How will the following impact agriculture?

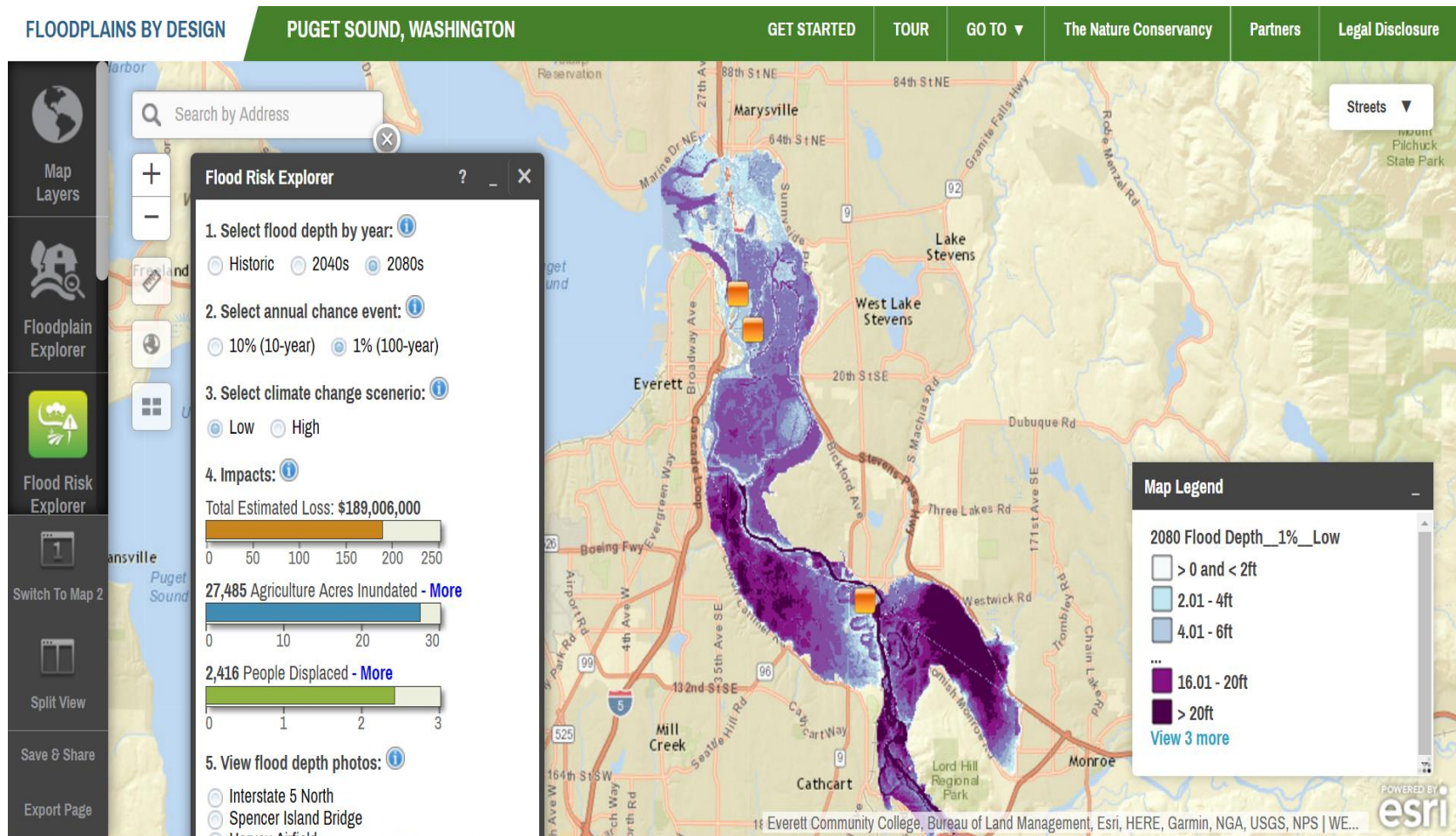
- ▣ Flooding changes
- ▣ Groundwater levels
- ▣ Saltwater intrusion (sea level rise)
- ▣ Land subsidence and channel aggradation
- ▣ Weather/climate changes

- Hydrologic and hydraulic modeling – what are predicted flows? UW Climate Impacts Group & Fathom



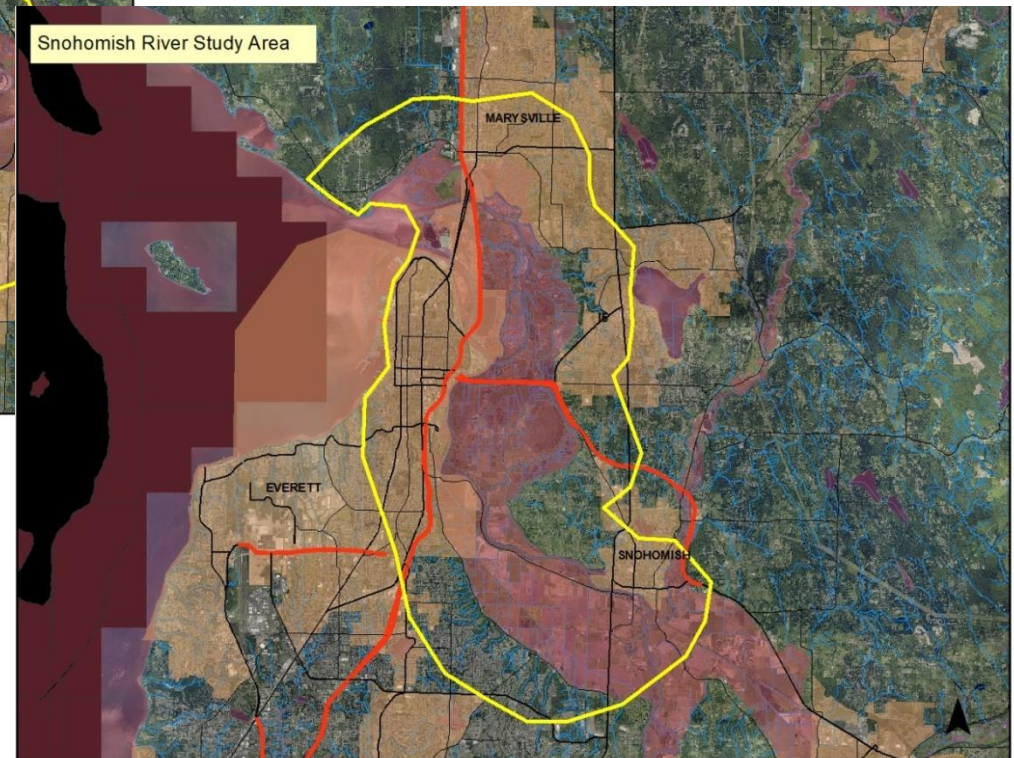
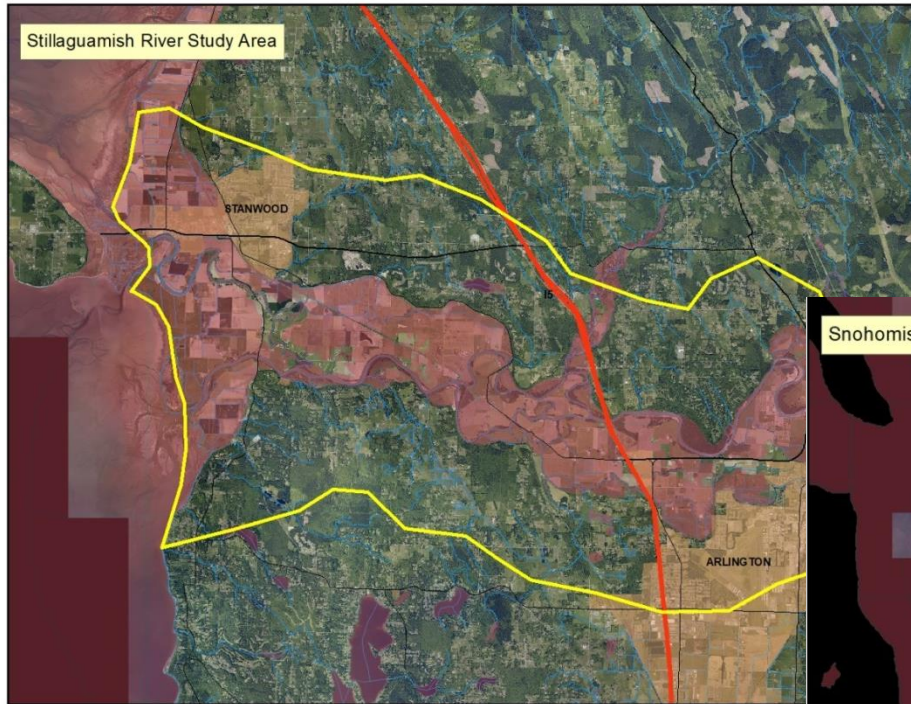
□ Floodplains by Design – Online Tool

The Nature Conservancy

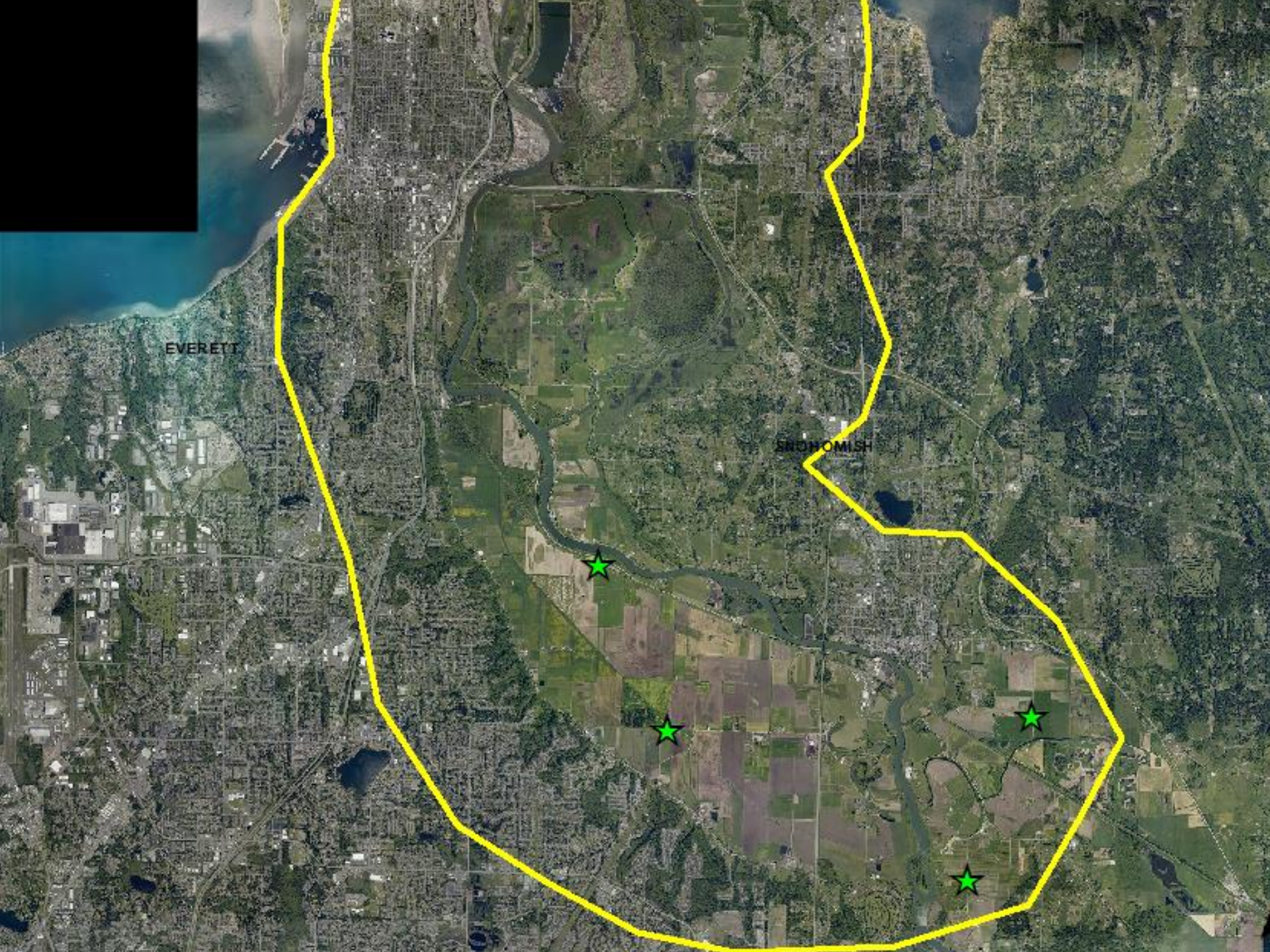


□ Groundwater and saltwater intrusion modeling

Cardno



Funding: National Estuary Program



EVERETT

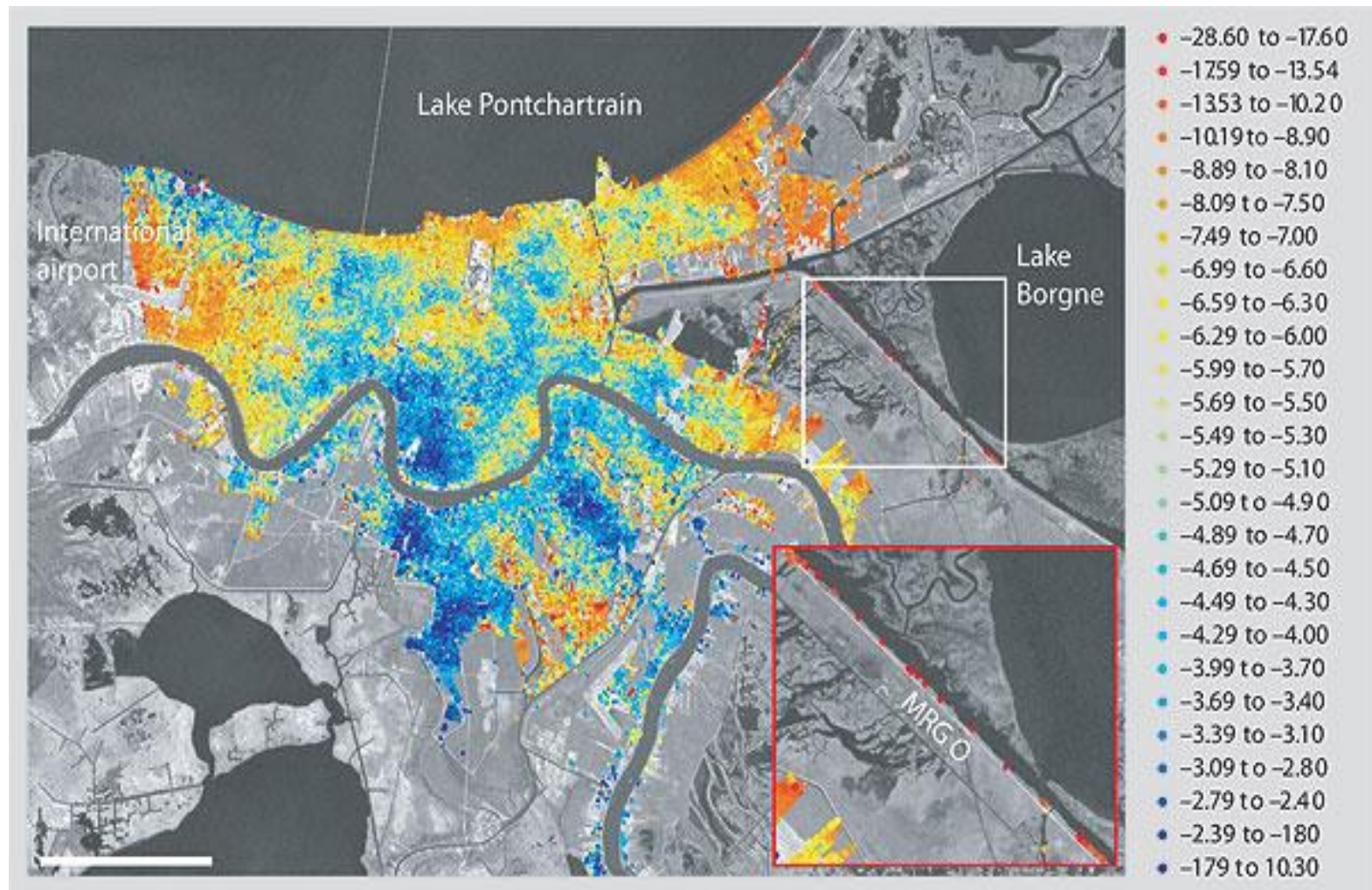
SNOHOMISH



EVERETT

SNOHOMISH

□ Farmland subsidence and channel aggradation



□ Crop impacts modeling

WSU – Center for Sustaining Ag and Natural Resources

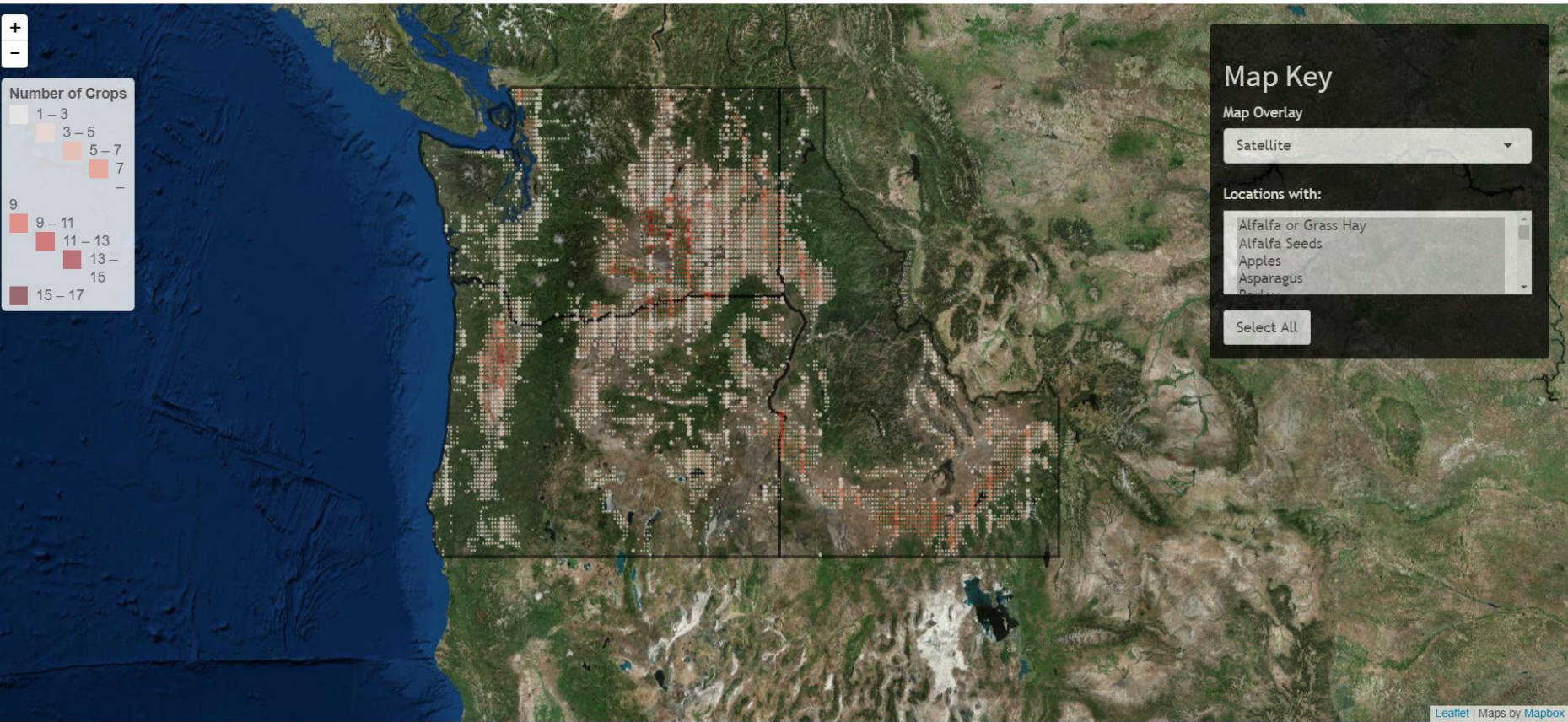
Climate Visualization Tool

Home

About

Team

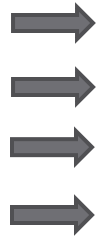
Contact



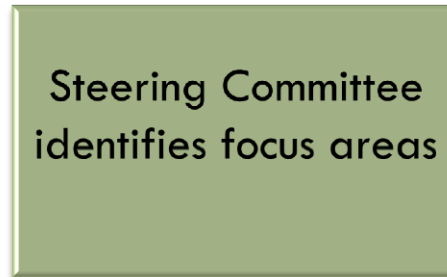
<http://agclimatetools.cahnrs.wsu.edu/cbcct/>

Funding: Snohomish and King Conservation Districts

December, 2018



Winter 2018/19



Start January 2019



Project Implementation



Landscape-scale Projects

◎ Infrastructure and Water needs

- Drainage and diking improvements
- Drought resilience and irrigation
- Design and estimate costs



Photo: King Conservation District

On-farm Recommendations

◎ Resilient farming

- Farm management practices (no till, cover cropping, agroforestry)
- Water storage
- Flood protection



Resilience Fact Sheets

- Biochar
 - Conservation Agriculture
 - Regenerative Agriculture
 - Integrated Pest Management
 - Agroforestry
-
- To come...water storage, cover crops, managed grazing, silvopasture, water breaks, irrigation conservation, drainage

Protection Strategy

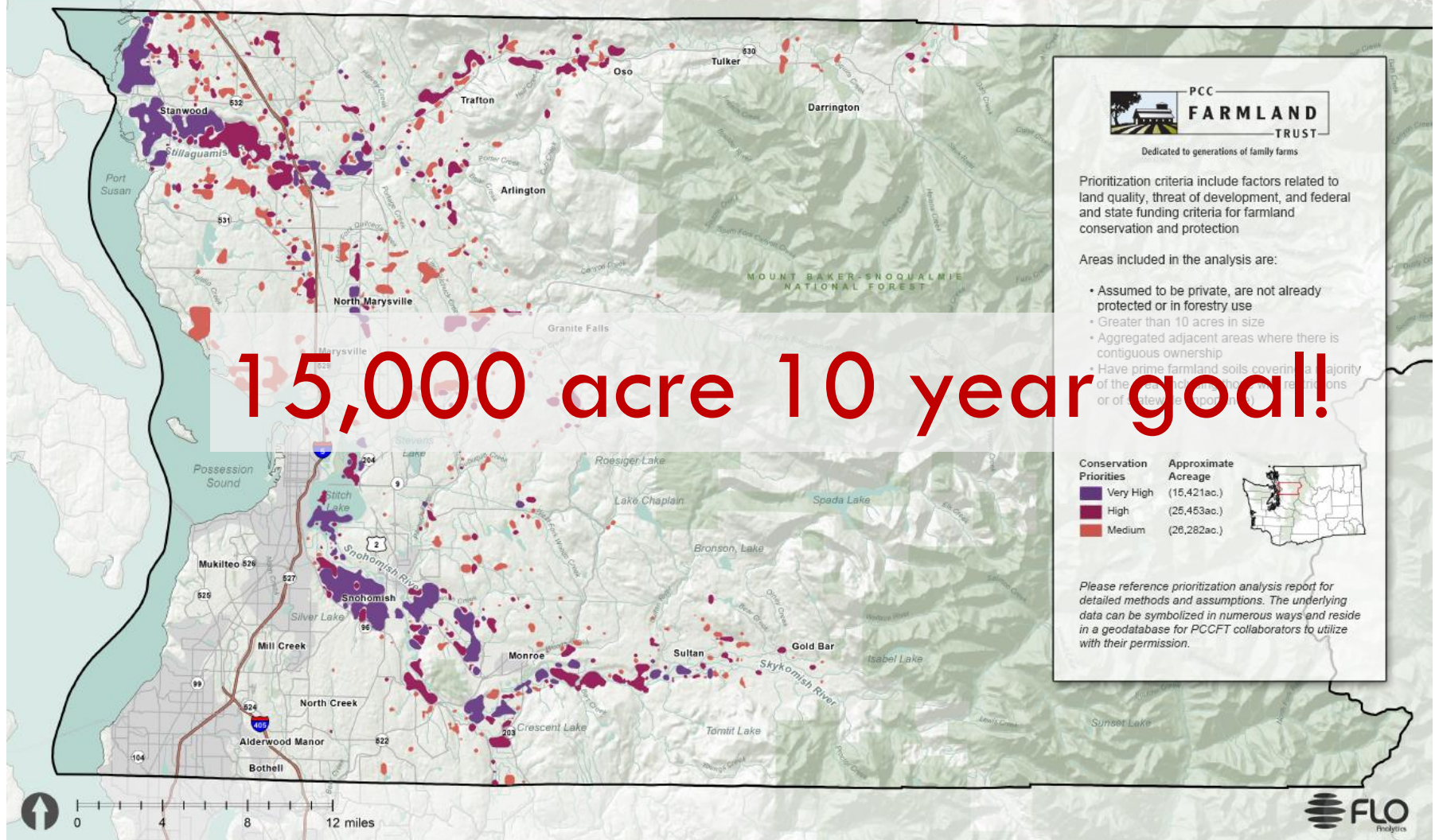
PCC Farmland Trust



Protection Strategy

PCC Farmland Trust

Snohomish County Farmland Conservation Priorities



Protection Strategy Updates

◎ Stilly Valley Protection Initiative

- 2 landowner workshops
- 3,000+ acres expressed interest
- \$1,000,000 in NRCS funding
- TDR, FbD, ACEP potential future funding
- 10+ site visits in process

Snohomish Conservation District

working together for better ground since 1941



Cindy Dittbrenner
Natural Resources Program Manager
Snohomish Conservation District

cindy@snohomishcd.org

[**snohomishcd.org/ag-resilience**](http://snohomishcd.org/ag-resilience)

Funders:

- NOAA
- Stillaguamish Lead Entity
- Floodplains by Design
- ESRP Learning Program
- EPA National Estuary Program
- King CD



Dedicated to generations of family farms



FORT&ERRA

FOR THE PEOPLE. FOR THE LAND. FOREVER.



Center for
Sustaining Agriculture
& Natural Resources

WASHINGTON STATE UNIVERSITY

